

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To:

ABB Offshore Systems AS
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Compliance/Intellectual
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PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY
(PCT Rule 43bis.1)

Date of mailing (day/month/year)	17 -09- 2004
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Applicant's or agent's file reference 9558WO-HF	FOR FURTHER ACTION See paragraph 2 below
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International application No. PCT/IB2004/001762	International filing date (day/month/year) 28.05.2004	Priority date (day/month/year) 28.05.2003
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International Patent Classification (IPC) or both national classification and IPC E21B 43/01
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Applicant ABB Offshore Systems AS et al

1. This opinion contains indications relating to the following items:

- Box No. I Basis of the opinion
- Box No. II Priority
- Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- Box No. IV Lack of unity of invention
- Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- Box No. VI Certain documents cited
- Box No. VII Certain defects in the international application
- Box No. VIII Certain observations on the international application

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further opinions, see Form PCT/ISA/220.

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3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/SE Patent- och registreringsverket Box 5055 S-102 42 STOCKHOLM Faxsimile No. +46 8 667 72 88
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Authorized officer

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WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/IB2004/001762

Box No. I Basis of this opinion

1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
 This opinion has been established on the basis of a translation from the original language into the following language _____, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
 - a. type of material
 a sequence listing
 table(s) related to the sequence listing
 - b. format of material
 in written format
 in computer readable form
 - c. time of filing/furnishing
 contained in the international application as filed.
 filed together with the international application in computer readable form.
 furnished subsequently to this Authority for the purposes of search.
3. In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.	PCT/IB2004/001762
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Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
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1. Statement

Novelty (N)	Claims	<u>1-27</u>	YES
	Claims	<u> </u>	NO
Inventive step (IS)	Claims	<u>1-27</u>	YES
	Claims	<u> </u>	NO
Industrial applicability (IA)	Claims	<u>1-27</u>	YES
	Claims	<u> </u>	NO

2. Citations and explanations:

Documents cited in the International Search Report:

D1: EP0733843 A1
 D2: GB2323907 A
 D3: US5458440 A
 D4: US5433482 A
 D5: US4019334 A

The cited documents represent the general state of the art. The invention defined in claims 1-27 is not disclosed by any of these documents.

The cited prior art does not give any indication that would lead a person skilled in the art to the claimed spool piece termination structure, connection arrangement, method for subsea connection of a pipeline to a spool piece or pipeline termination. Therefore, the claimed invention is not obvious to a person skilled in the art.

Accordingly, the invention defined in claims 1-27 is novel and is considered to involve an inventive step.

The invention is industrially applicable.